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UNIMAS RESEARCH EXCELLENCE (The Colourful Journey of Research and Innovation)



# UNIMAS RESEARCH EXCELLENCE

The Colourful Journey of Research and Innovation



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# **UNIMAS RESEARCH EXCELLENCE**

## **The Colourful Journey of Research and Innovation**



An aerial photograph of a large university campus. In the foreground, there is a green football field with a red running track. To the left of the field is a large, modern building with a curved facade. In the center, a large lake is surrounded by several multi-story buildings with green roofs. To the right of the lake, there are more buildings and a tall, white, tower-like structure. The background shows a dense forest and a city skyline in the distance.

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MESSAGE FROM DEPUTY VICE-CHANCELLOR (RESEARCH AND INNOVATION)

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# FOREWORD

## Message from Vice Chancellor

Assalamu'alaikum Warahmatullahi Wabarakatuh, Salam Sejahtera, and Salam UNIMASku Sayang.

Praises to Allah Almighty for His Blessings and Abundance that the UNIMAS Coffee Table Book is published without challenges. UNIMAS was founded bearing excellence in education, training, and scholarship in mind. Hence, research became a core business to propel the University to achieve excellence, stressing on the importance to recognise fundamental fields of research and the sustainability of the research solution.

In this book, we pay tribute and showcase the various fields of research and the fruits of their labour since the inception of UNIMAS that benefitted the government, academia, industry and community. Our researchers are motivated to be cognizant of the need to incorporate the niche areas of our research for the betterment of our stakeholders. Indeed, with COVID-19, the year 2020 presented us with an unprecedented challenge to which UNIMAS has proudly sustained and persevered through various research and innovation initiatives.

I wish to convey my sincere acknowledgement to the organising committee, researchers, and all who contributed in the completion of the book. I hope this book enables our reader to appreciate our commitment to excellence in research and innovation for the past 27 years and beyond through constantly improving innovative research and infrastructure.

Thank you.

**PROFESSOR DATUK DR. MOHAMAD KADIM BIN SUAIDI**  
Vice Chancellor

## Message from Deputy Vice Chancellor (Research and Innovation)

Assalamu'alaikum Warahmatullahi Wabarakatuh and Salam Sejahtera,

As UNIMAS strives to realise excellence in research, the University identifies Innovation Ecosystem as a key driver. With this book, we hope to convey the hard work and efforts that our researchers have put into their research as well as the collaborative efforts of their team to achieving the intended results. The aspiration to promote the research ideas and inventions to the stakeholders and community has enable the fruition of this book.

The research activities done in UNIMAS are facilitated, supported, developed and commercialised via the Research Innovation and Enterprise Centre (UNIMAS Innovation). UNIMAS Innovation functions to assist researches to secure opportunities and commercialise their research findings that enhance the community and economic impacts. In line with UNIMAS strategic focus of innovation ecosystem excellence, we endeavour to remain committed to the three niche areas of UNIMAS, while bearing in mind the sustainability for diverse and dispersed communities. However, it is important to understand that the contribution of our accomplished researchers from a diverse field is the key to the success of UNIMAS on the front of research ad innovation.

It is with deep sincerity that I express gratitude and appreciation to the organising committee, researchers, and those involved for coordinating this book. The completion of this book was imperative to showcase our dedication to impactful and sustainable research and innovation.

Thank you.

**PROFESSOR DR. WAN HASHIM WAN IBRAHIM**  
Deputy Vice Chancellor (Research & Innovation)



# INTRODUCTION

Universiti Malaysia Sarawak (UNIMAS), Malaysia's eight public university, was officially incorporated on 24th December 1992. A university that is contemporary in character and forward-looking in outlook, it is committed in providing the nation with leaders, managers, scientists, and technical specialists, as well as thoughtful citizens who are capable of handling the complex challenges of our common future's confidently, competently, and creatively.

UNIMAS has a total of 96 academic programmes on offer (47 undergraduate programmes, 28 research postgraduate programmes, 18 postgraduate coursework and 3 foundation) and a total student population of 15,882 consisting of 716 pre-university students, 13,517 undergraduates, and about 2000 postgraduates.

Since its founding in 1992, UNIMAS has accomplished excellence, striving closer to its vision to be of internationally acknowledged stature. In the Times Higher Education (THE) University Rankings 2020, UNIMAS ranked fifth and 11th in Malaysia in the University Impact Rankings and World University Rankings, 201 in the world in the University Impact Rankings, 351 in the world in Young World University Rankings, 401 in Asia University Rankings, 501 in the world for Business & Economics, 801 in the world for Engineering & Technology, and 1001 in the world.

The knowledge discovery initiatives at UNIMAS are premised partly upon the abundance of natural resources and diverse socio-cultural make-up of the State of Sarawak. While UNIMAS is strong in biodiversity studies, a majority of the research activities are based firmly on contemporary technologies.

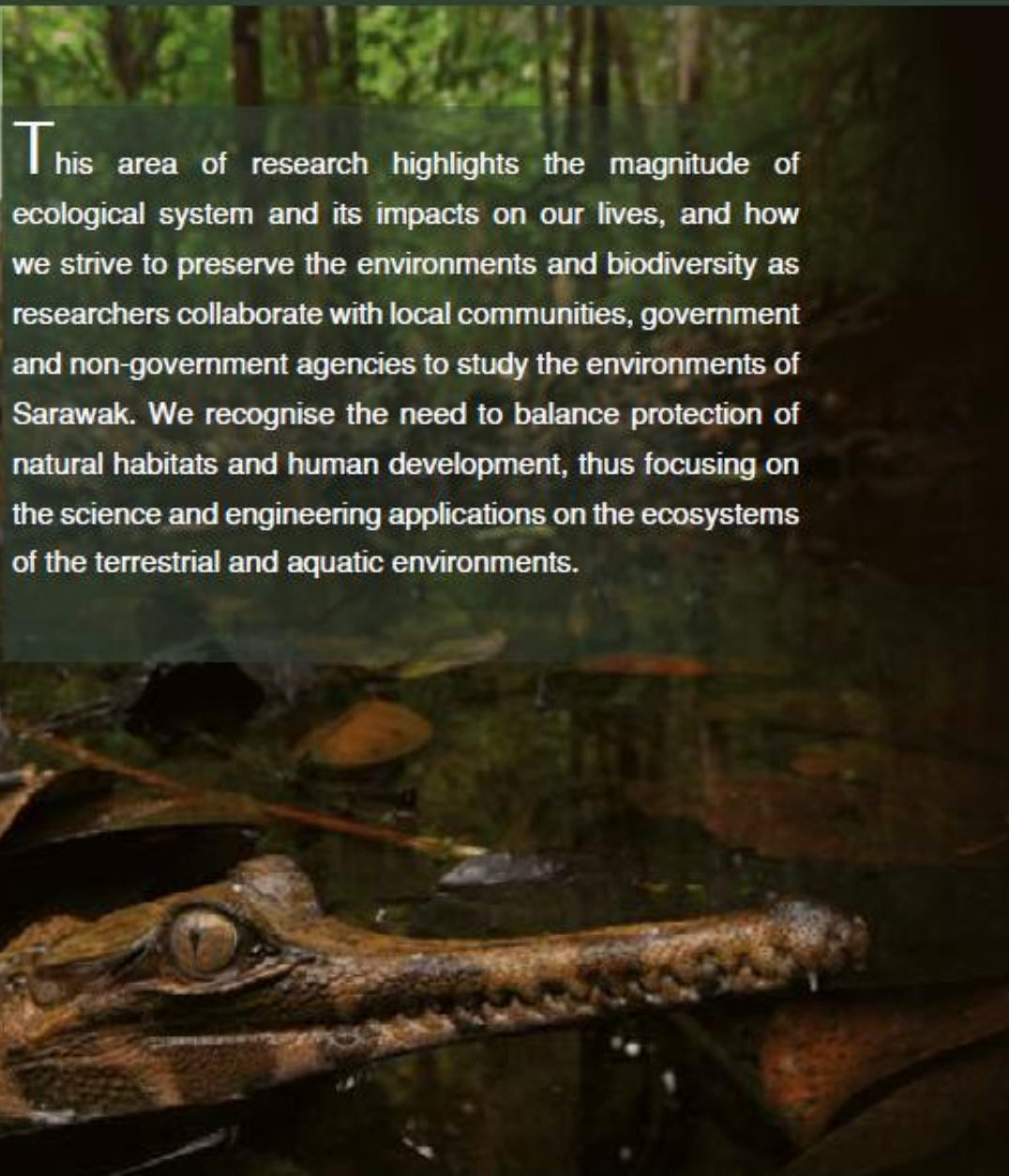


The cultural diversity and social uniqueness of Sarawak communities offer opportunities for studies in health and medicine by offering a look at the influence of environmental factors and socio-cultural practices on the interactions of various pathogens as well as other issues related to community health.

UNIMAS's commitment to research is unparalleled. Its commitment to research has been recognised by the stakeholders and partners in the industry as well as being acknowledged by peers in at least three niche areas of research, namely Sustainable Community Transformation, Biodiversity and Environmental Conservation and Information, Communication, and Creative Technology.







This area of research highlights the magnitude of ecological system and its impacts on our lives, and how we strive to preserve the environments and biodiversity as researchers collaborate with local communities, government and non-government agencies to study the environments of Sarawak. We recognise the need to balance protection of natural habitats and human development, thus focusing on the science and engineering applications on the ecosystems of the terrestrial and aquatic environments.

## BIODIVERSITY & ENVIRONMENTAL CONSERVATION



The Tomistoma (*Tomistoma schlegelii*), also known as the Malayan Gharial or False Gharial, or locally as Buaya Julong or Buaya Kenyulong, is a secretive crocodylian, hiding in isolated inland rivers, lakes and lowland peat swamp forests within Malaysia and Indonesia. In Sarawak, it occurs in often small, fragmented populations, usually in areas that are nearly inaccessible to people [Institute of Biodiversity & Environmental Conservation]







The Fairy Rock Gecko (*Cnemaspis paripari*) is a vibrant inhabitant of Bau's Wind and Fairy Caves [Institute of Biodiversity & Environmental Conservation]



Our researchers in the lab

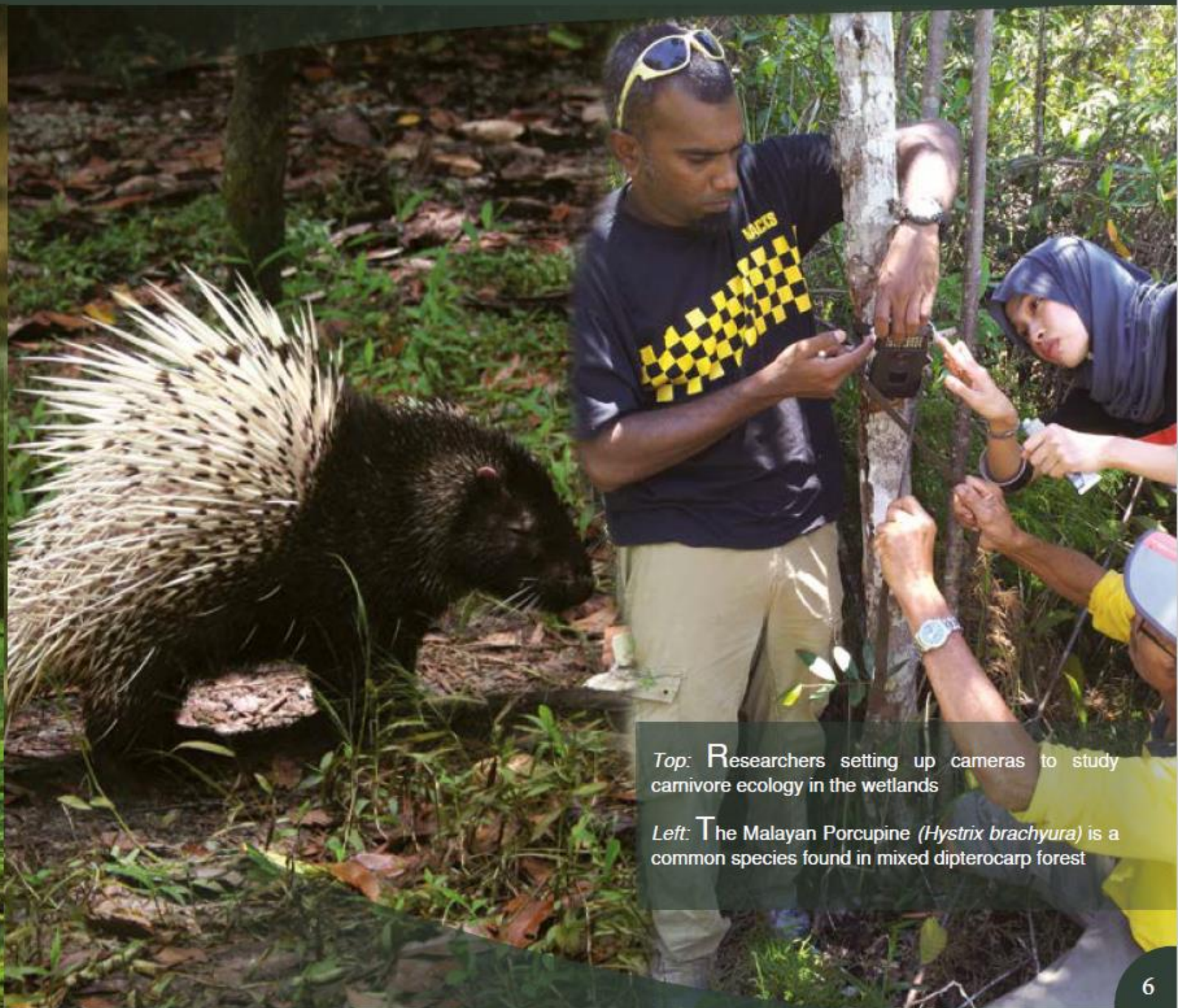


Left: An image of a newly discovered lizard, *Subdoluseps samajaya*, described in the year 2019 from the Sama Jaya Nature Reserve, Kuching

Bottom: The Bornean Horned Lizard (*Harpesaurus borneensis*), as discovered by our researchers, is indeed a rarely seen forest lizard. Unusual among members of its family, it shows a prehensile tail, that can coil up, horns on its nose and the females produce live young, rather than eggs











**B**ornean Green Keeled Pit Viper (*Tropidolaemus subannulatus*) is a venomous snake from Sarawak's lowland rainforests [Institute of Biodiversity & Environmental Conservation]

**T**he Collared Slug Snake (*Pareas nuchalis*) is non-venomous and widely distributed in Borneo







The Siberian Rubythroat (*Calliope calliope*) breeds in Eurasia and arrives in Borneo during the northern winter months [Institute of Biodiversity & Environmental Conservation]



Left: The ruddy kingfisher (*Halcyon coromanda*) is a mid-sized bird and widely distributed in East and Southeast Asia

Bottom: Sunda Scops-owl (*Otus lempiji*) are commonly distributed in the lowland forests throughout Sabah



Bottom: The Diadem Leaf-nosed Bat (*Hipposideros diadema*) is nocturnal and gregarious [Institute of Biodiversity and Environmental Conservation]



Top: Lucas' Short-nosed Fruit Bat (*Penthetor lucasi*) inhabits the Malay Peninsula, the Riau Archipelago near Singapore, Sumatra, and Borneo



The Brilliant Rasbora (*Rasbora einthovenii*) is a ray-finned fish found in the Malay Peninsular and Borneo [Institute of Biodiversity & Environmental Conservation]



A bottom-dwelling goby (*Neogobius melanostomus*) from the hill streams of Sarawak

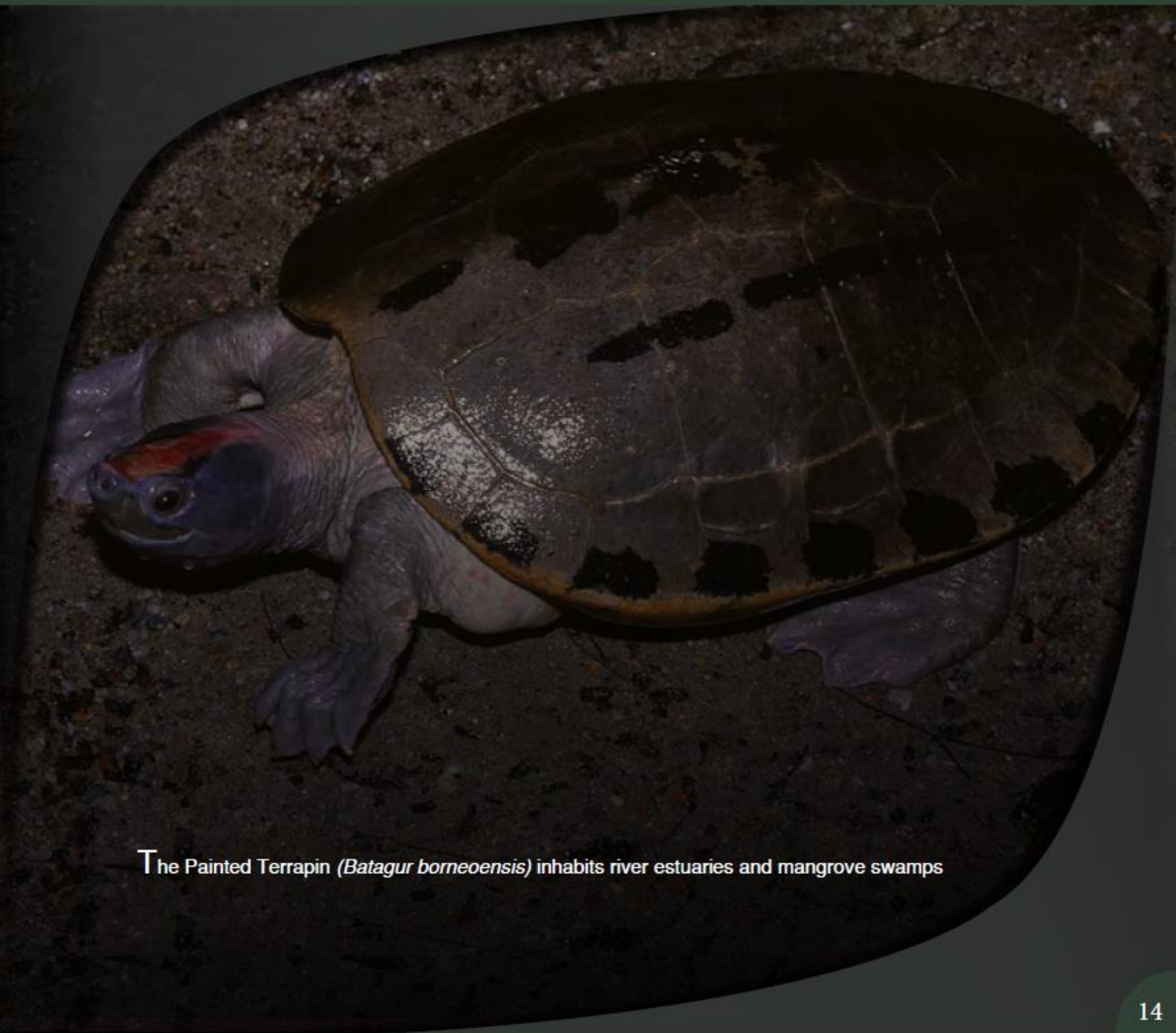




The Asiatic Softshell Turtle (*Amyda cartilaginea*) encountered in Sarawak's large rivers and blackwater swamps [Institute of Biodiversity & Environmental Conservation]



The Painted Terrapin (*Batagur borneoensis*) inhabits river estuaries and mangrove swamps





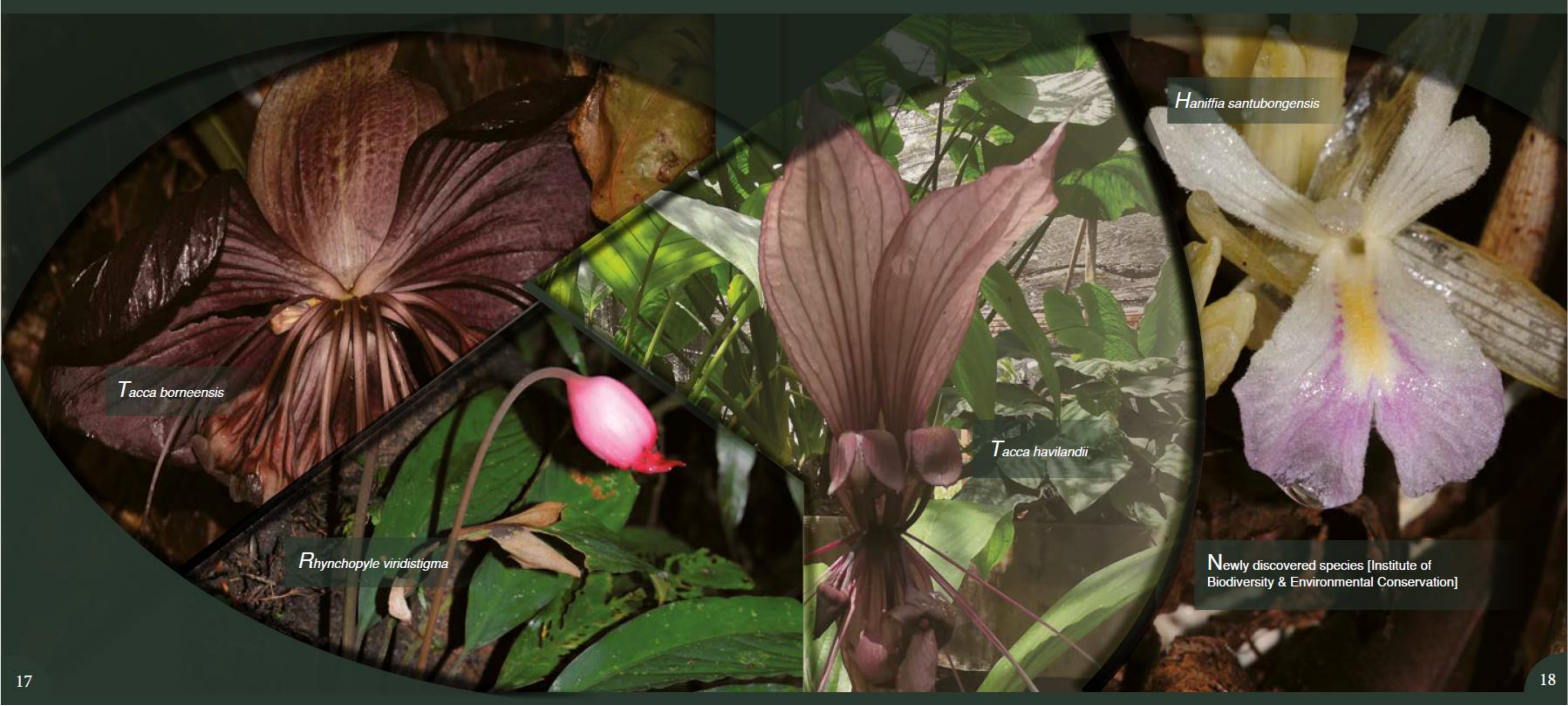


The Matang narrow-mouthed frog (*Microhyla nepenthicola*) is found in the Matang Range in Sarawak, Borneo. It is one of the world's smallest frogs [Institute of Biodiversity & Environmental Conservation]



The Bornean Rainbow Toad (*Ansonia latidisca*) was rediscovered in 2011. It inhabits submontane forests





*Tacca borneensis*

*Rhynchopyle viridistigma*

*Tacca havilandii*

*Haniffia santubongensis*

Newly discovered species [Institute of  
Biodiversity & Environmental Conservation]



Socio-economic baseline study of the sago farmers in Mukah, Sarawak. Sago cultivation has shown potential for poverty alleviation of farmers with small holdings [Faculty of Economics & Business]







**ARBORETUM**

Marked Trees

Our researchers were interviewed by Astro Awani on the introduction of the Real Living Lab

Vice-Chancellor, Professor Datuk Dr Mohamad Kadim bin Suaidi visits the Real Living Lab [Faculty of Resource Sciences & Technology]



Vice-Chancellor, Professor Datuk Dr Mohamad Kadim bin Suaidi witnesses activities such as plant nursery, mangrove trail, stingless bee, and orchid shelter

Misai Kucing (*Orthosiphon aristatus*), a plant species in the family of Lamiaceae/Labiatae. The plant is a medicinal herb found throughout Southern China, the Indian Subcontinent, Southeast Asia and tropical Queensland







Focus group with local communities at Ulu Engkari [Faculty of Social Sciences & Humanities]



Planting of Takasago tree at Takasago-UNIMAS Educational Forest, a collaboration between UNIMAS, Takasago Thermal Engineering Co., Ltd and Japan-Malaysia Association [Faculty of Resource Sciences & Technology]



Takasago-UNIMAS Educational Forest aims to become an exemplary model forest for teaching, research and training of young generations towards promoting efforts in restoring and conserving the tropical forests of Sarawak

タカサゴの森  
Takasago - UNIMAS  
Educational Forest  
Established Since 2018





Showcasing different plants available at the Real Living Lab,  
UNIMAS's Kota Samarahan Campus [Plant Research Centre]



A jetty overlooking the mangroves at the Real Living Lab [Faculty of Resource Sciences & Technology]



# INFORMATION, COMMUNICATION & CREATIVE TECHNOLOGY

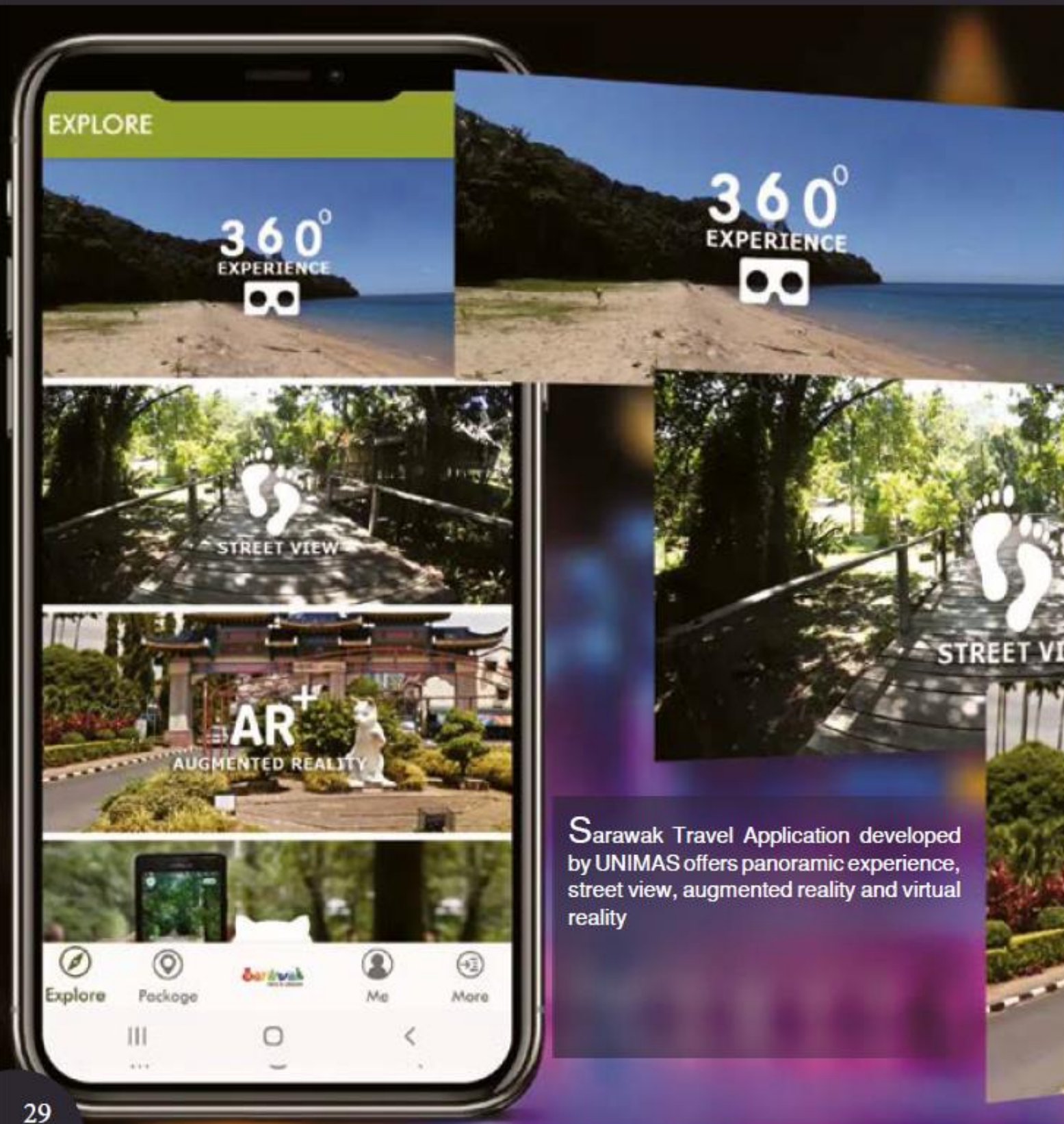
Research strengthens and rationalises efforts in engineering, information and communication technologies. By imparting our knowledge on technical, practical, and creative approaches of engineering as well as applying scientific theories and mathematical techniques to design and create solutions to enhance our existence, we hope to assist society in attaining a better quality of life and achieving socio-economic goals.



Launching of Sarawak Travel App, experiencing Augmented Reality (AR) and Virtual Reality (VR) with the travel app [Faculty of Computer Science & Information Technology and Faculty of Economics & Business]

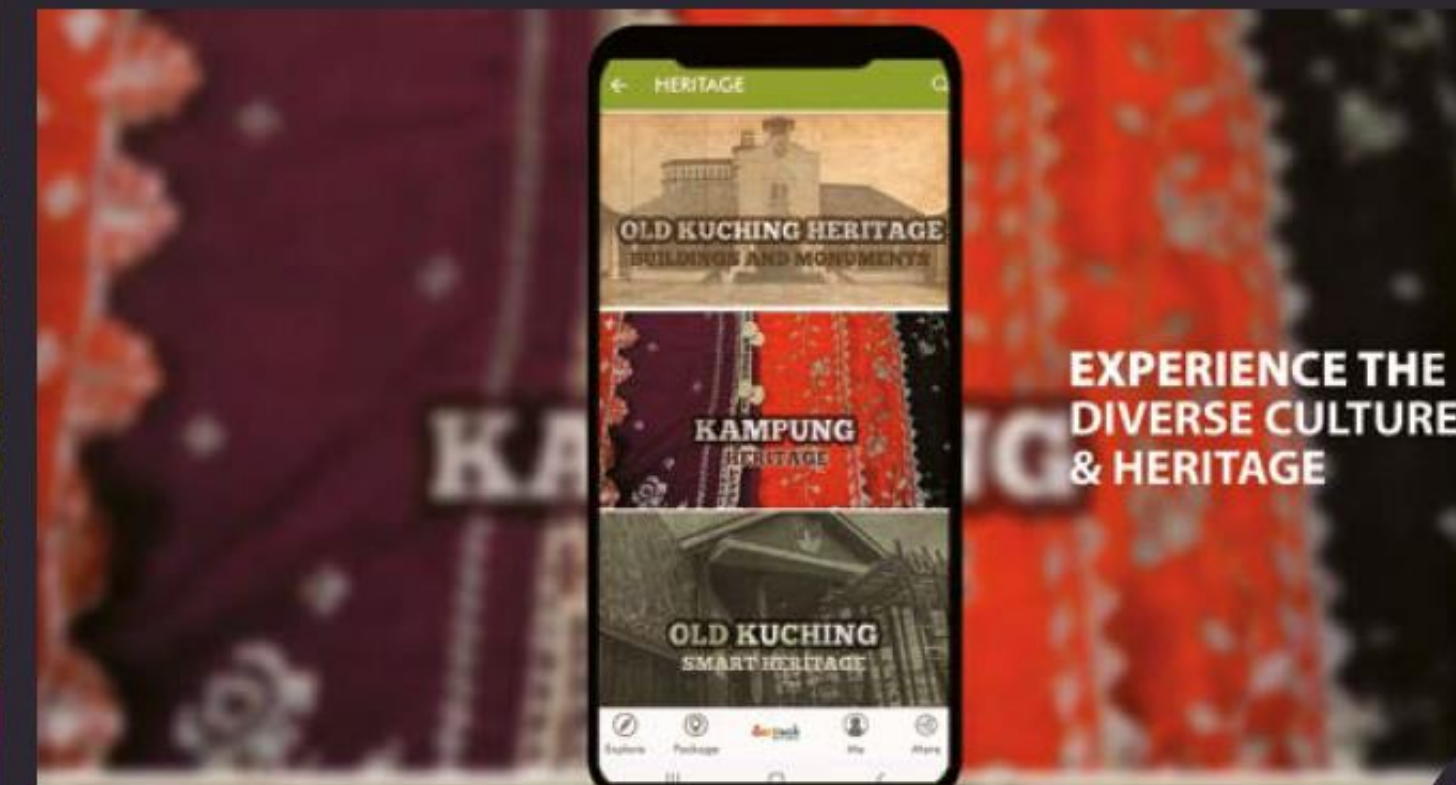






Sarawak Travel Application developed by UNIMAS offers panoramic experience, street view, augmented reality and virtual reality

The application includes information on Sarawak tourism sites and provides a sneak peek of the attractions in Sarawak through mobile technology [Faculty of Computer Science & Information Technology and Faculty of Economics & Business]





Introduction to the Ring Ladies of Sarawak in the form of 3D model [Faculty of Applied & Creative Arts]



The Ring Ladies are Bidayuhs from Kampung Semban, Padawan, Sarawak





Micro hydro system setup for rural underserved community in Sarawak [Faculty of Engineering]



Handover ceremony after the installation of micro hydro system







UNIMAS Water Desalination Project for Sarawak [Faculty of Engineering]



The water system developed by UNIMAS





A small solar power installation to power up all devices in Barrio under the Long Range Wireless Project [Institute of Social Informatics & Technological Innovations]



Installation of a portable version of the Customer Premises Equipment (CPE) and evaluating CPE performance



Installation of a small solar power installation to power up the Telecentre at Bario [Institute of Social Informatics & Technological Innovations]



Work on a solar power system installed at the Bario Telecentre







*Left and Bottom:* Installation of the solar power system at Bario Telecentre [Institute of Social Informatics & Technological Innovations]





Scienceploration Camp [Centre for Pre-U]



Students having hands-on experience in science and technology







D'Pepper Project - Mini Industrial Pepper Grading Machine [Faculty of Computer Science & Information Technology]



A prototype pepper grading machine to sort Sarawak pepper berries





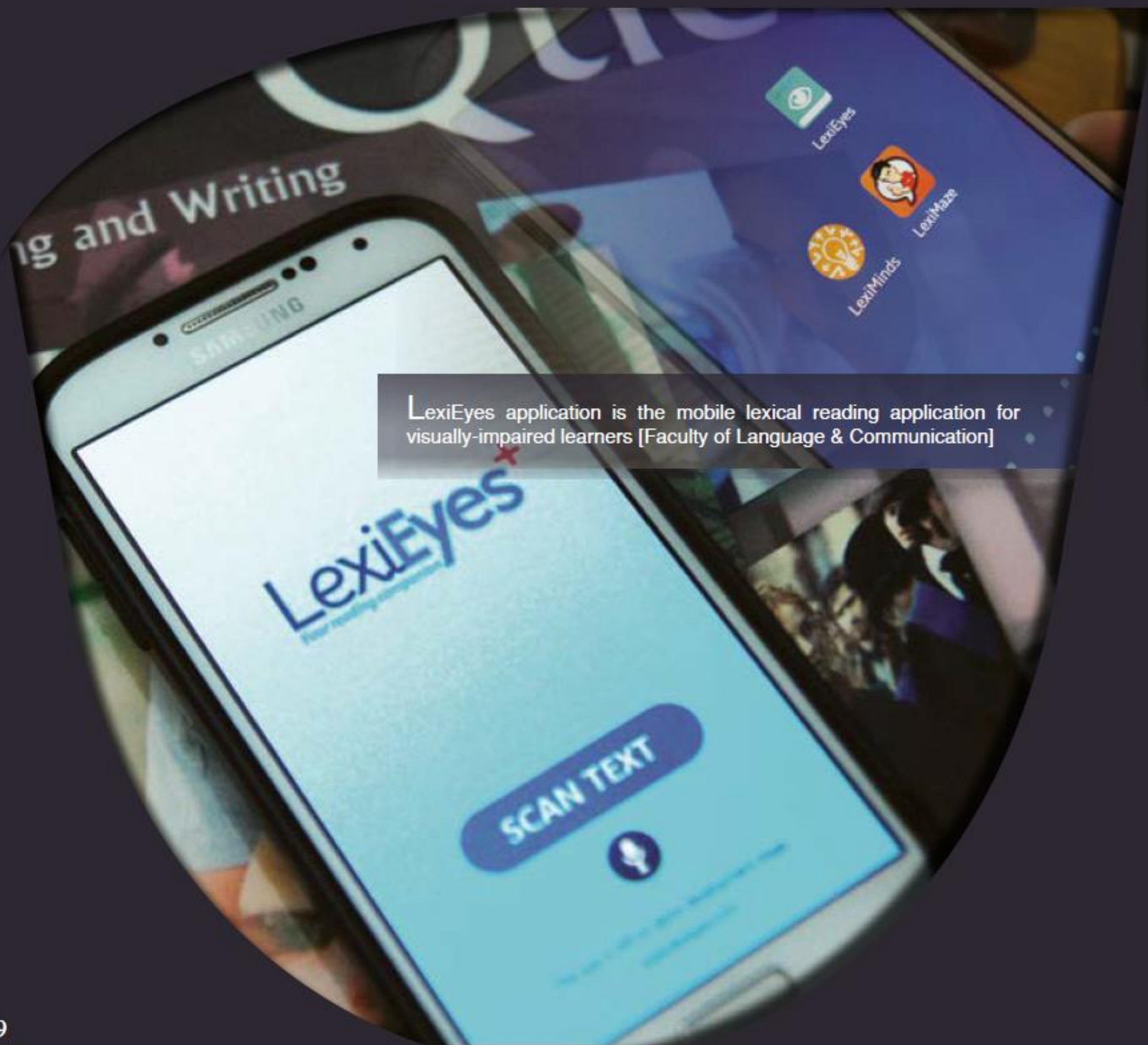
Promising compressive strength gained in tropical peat through adding chemicals, fillers and additives from industrial wastes [Faculty of Engineering]



Sampling for undisturbed testing made easy by peat sampler equipment







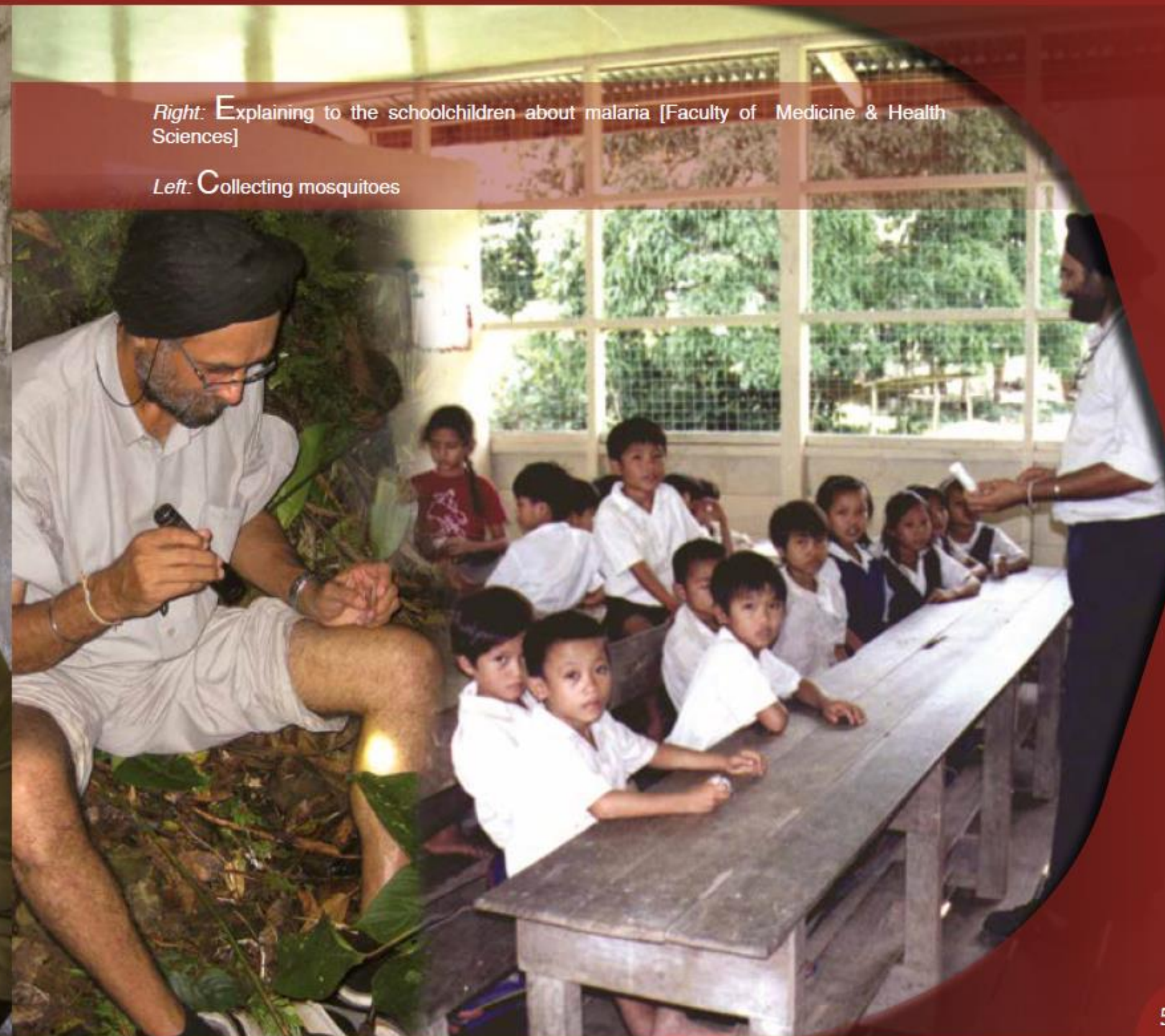


This research area attempts to enhance the sustainability of economic development of our community by utilising the quadruple helix relationship of the government, university, industry, and community. We aim to build healthy, regenerative societies for the future in order to sustain all living things for our future generations bearing in mind that our ultimate goal is to transform and sustain the community through research and innovation.



Right: Explaining to the schoolchildren about malaria [Faculty of Medicine & Health Sciences]

Left: Collecting mosquitoes



## SUSTAINABLE COMMUNITY TRANSFORMATION



A collaborative work of malaria surveillance at a remote community in Kapit by the Malaria Research Centre and the Kapit Divisional Health Office



Taking blood samples to check for malaria





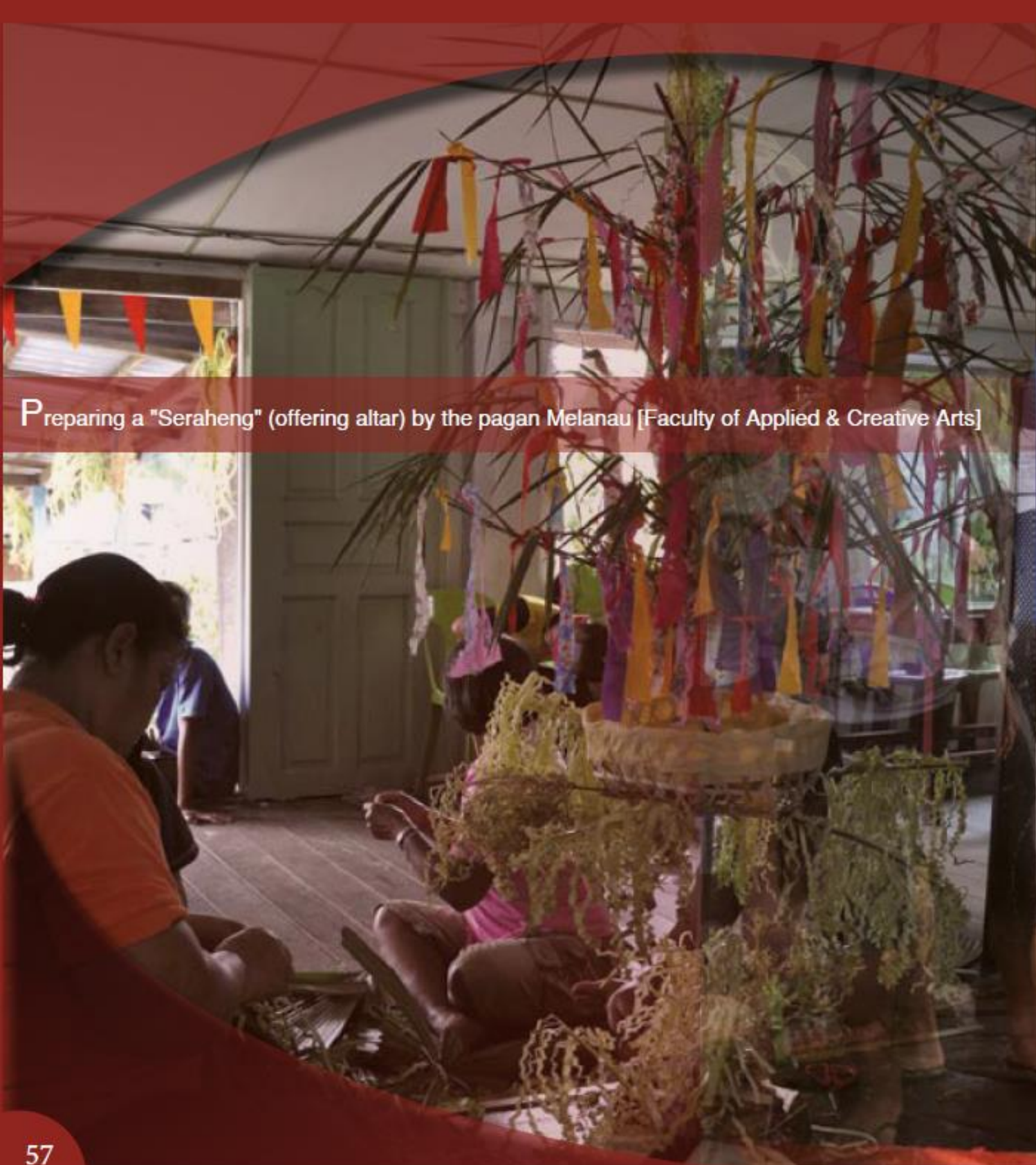


Our international research collaborator giving a talk on dengue research


Setting up PCR experiments for rabies

Observing rabies virus growth in tissue culture cells [Institute of Health and Community Medicine]



A person is shown in profile, working on a large, tiered offering altar. The altar is constructed from natural materials and is heavily decorated with numerous colorful ribbons in shades of red, yellow, and purple. It is also adorned with greenery and other natural elements. The setting appears to be an outdoor or semi-outdoor area with a wooden floor.

Preparing a "Seraheng" (offering altar) by the pagan Melanau [Faculty of Applied & Creative Arts]

A person is working on a 'Rabung', a ritual boat. The boat is decorated with many colorful flags and ribbons. It is placed on a wooden platform. Two other people are standing nearby, observing the process. The background shows a tropical setting with palm trees.

Preparing "Rabung" (ritual boat with carved stick images/bilum) by the pagan Melanau





Gamification research under CreativeCulture Project [Faculty of Computer Science & Information Technology and Faculty of Cognitive Sciences & Human Development]




The project aims to broaden and extend the impact of experiential learning through play and gamification





Members of the Penan community using internet during the opening ceremony of eLamai Telecentre Project [Institute of Social Informatics & Technological Innovations]



The Telecentre's solar power



Documentating Songket Rajang at Kg. Rajang, Tanjung Manis in Mukah Division  
[Faculty of Applied & Creative Arts]



Collaborating with the local community in the Songket making process





Furniture design by Pusaka-UNIMAS [Institute of Creative Arts & Technology]



Pusaka-UNIMAS Furniture Design Competition







Showcasing the output of furniture design to the Chief Minister of Sarawak, Datuk Patinggi (Dr) Abang Haji Abdul Rahman Zohari Tun Abang Haji Openg [Institute of Creative Arts & Technology]



The award winning furniture design at Pusaka-UNIMAS Furniture Design Competition





"Semarak Pertiwiku" Musical Theatre aims to enlighten the community about the importance of upholding integrity



A collaborative project between Sarawak Integrity and Ombudsman Unit (Union), Malaysian Anti-Corruption Commission (MACC) Sarawak and the Faculty of Applied & Creative Arts (UNIMAS)



# EXPOSITIONS

UNIMAS holds expositions with the main aim of imparting knowledge to its audience. Expositions becomes a platform for researchers to present to the stakeholders the ideas, processes, and outcomes of their research. In doing so, our researchers highlight the significance of their work and how our stakeholders benefit from the research.



UNIMAS's outstanding performance at Seoul International Invention Fair (SIIF) 2019 has given its researchers encouragement and motivation to persevere in their research endeavours and ultimately propel UNIMAS towards attaining excellence in the research and innovation ecosystem







UNIMAS Innovation Technology Expo (InTEX) is part of UNIMAS's annual internal research and innovation initiatives





# SILVER JUBILEE CONFERENCE 2017

TRANSFORMING COMMUNITIES TOWARDS  
SUSTAINABLE AND GLOBAL SOCIETY



InTEX is a platform for academicians to showcase their findings.



UNIMAS Silver Jubilee Conference 2017 (USJC2017) provided an ideal platform to foster national and international cross-societal/organisational research linkages.





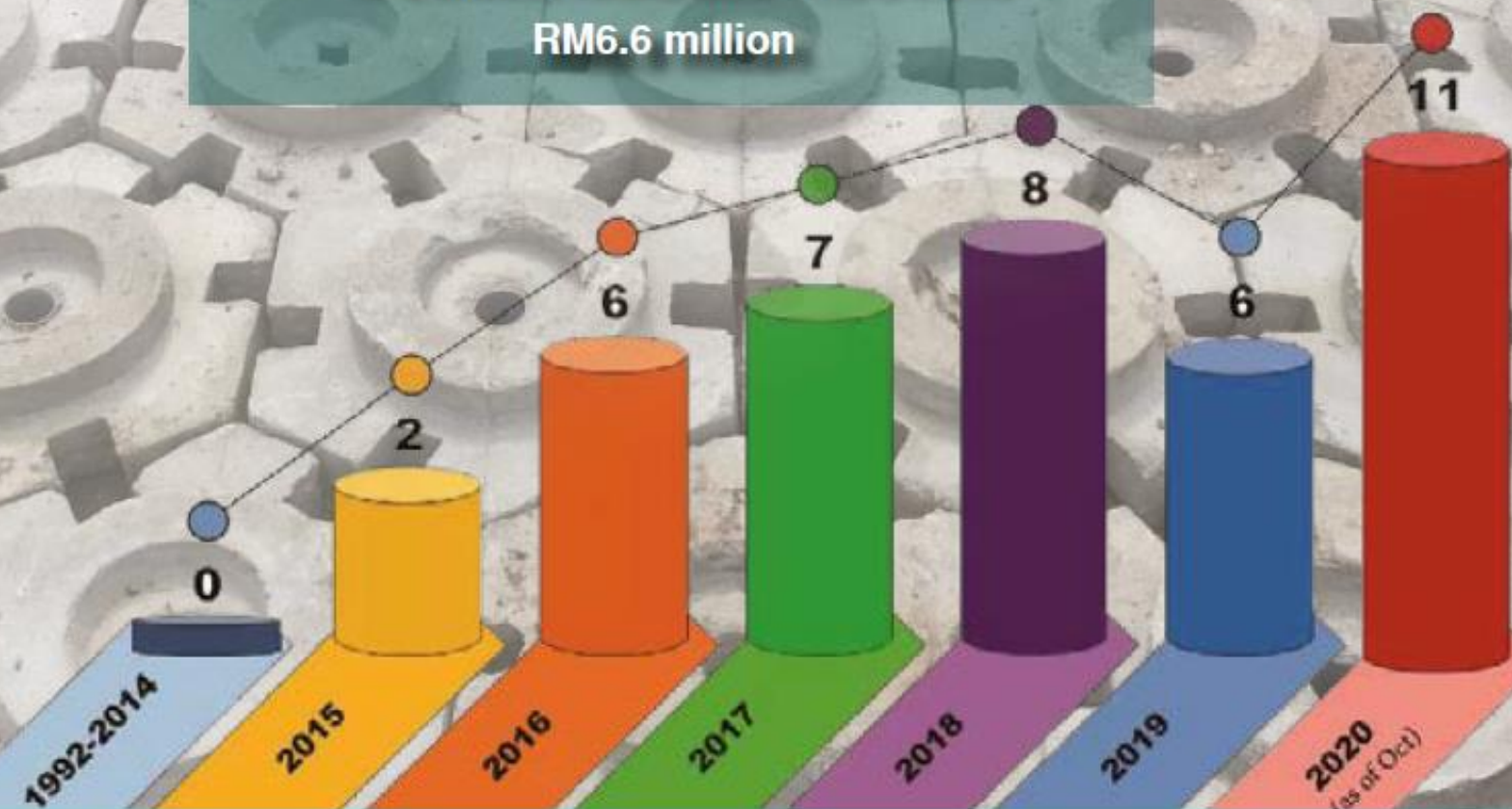
# COMMERCIALISATION

Commercialisation is part and parcel of the innovation lifecycle which allows researchers to convert the outcomes of their ideas into products or services that becomes an application into the broad marketplace.

UNIMAS Commercialisation (1992-2020)

40 COMMERCIALISED PRODUCTS

RM6.6 million



The pilot project of StormPav Green Pavement System in Kg Mang, Samarahan, is an important milestone as a model of permeable roads to overcome flash flooding and road damage due to water ponding [Faculty of Engineering]



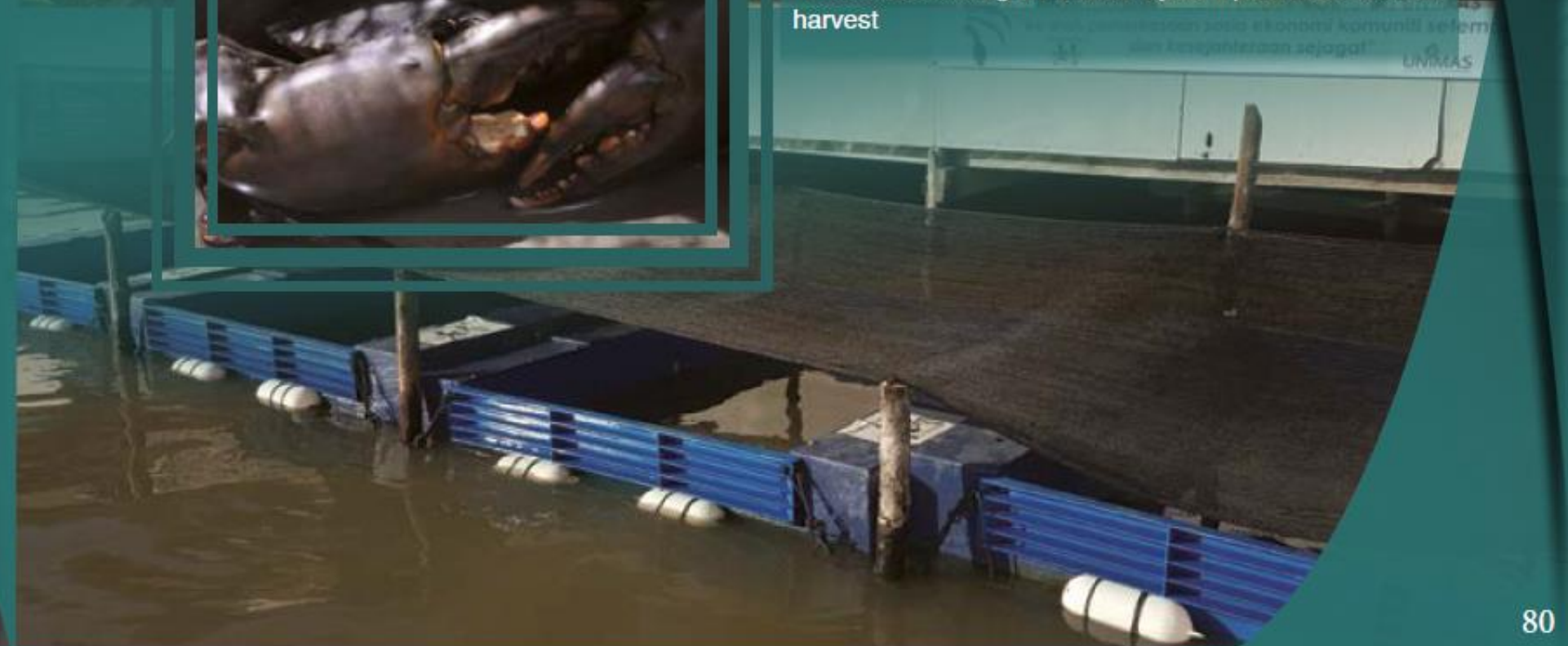




An award winning project entitled "Crab Housing Innovation for Sarawak's Local Communities" aims to elevate socio-economic wellbeing of our local communities [Institute of Creative Arts & Technology]



The Crab Housing Innovation System promotes healthier harvest







Our strength in research is manifested through our success by commercializing our research.

*Opposite page top:* Lauryn VCO is one of the natural cosmetic product brand developed by UNIMAS with virgin coconut oil as the main ingredient

*Opposite page bottom:* A.R.O Sarawak is a brand of organic natural cosmetic product innovated by our researchers in partnership with a local industry

*This page:* Derived from stingless bee honey, Meliponi is a collaborative effort offers cosmetic, food and supplement products [All products are from Faculty of Resource Science & Technology]





## COLLABORATIONS & PARTNERSHIPS

Through the University's collaborations and partnerships, UNIMAS has moved closer to its vision to become an exemplary university of internationally acknowledged stature. In addition, by forging bonds with industry players, UNIMAS creates a quicker path to translating their research for the betterment of the community.



Memorandum of Agreement (MoA) signing ceremony between UNIMAS & Cornell University, USA



Courtesy visit by Dr Angéline Blanc-Serre, Attaché for Higher Education and Science, Embassy of France in Malaysia





Memorandum of Understanding (MoU) signing ceremony between UNIMAS and Beijing Wuzi University, People's Republic of China



MoU signing ceremony between UNIMAS and The National Institute of International Strategy, Chinese Academy of Social Sciences



MoU signing ceremony between UNIMAS and Thaksin University, Thailand



MoU signing ceremony between UNIMAS and Kurume University, Japan



Officiating the Sponsorship of Digital Makerspace Starter Kits - SACOFA Sdn Bhd and UNIMAS Holdings Sdn Bhd



MoU signing for innovation on construction on peat soil with Geo Crete Specialist Sdn Bhd and UNIMAS



Licensing and Commercialisation Agreement between Unimas Holdings Sdn Bhd and Iman Insani Sdn Bhd



## RESEARCH EXCELLENCE

**R**esearch Excellence aims to showcase the University's research process and how UNIMAS has given back to not only local communities, but to other stakeholders. By striving for sustainability and enhancement of stakeholders' quality of life, our researchers work to assist UNIMAS attain international prominence, bearing the three niche areas in mind: (i) Sustainable Community Transformation; (ii) Biodiversity and Environmental Conservation; and (iii) Information, Communication, and Creative Technology.







The World Animal Day 2019 and the Open Day of the Institute of Biodiversity and Environmental Conservation exhibition



Various publication of biodiversity in Sarawak







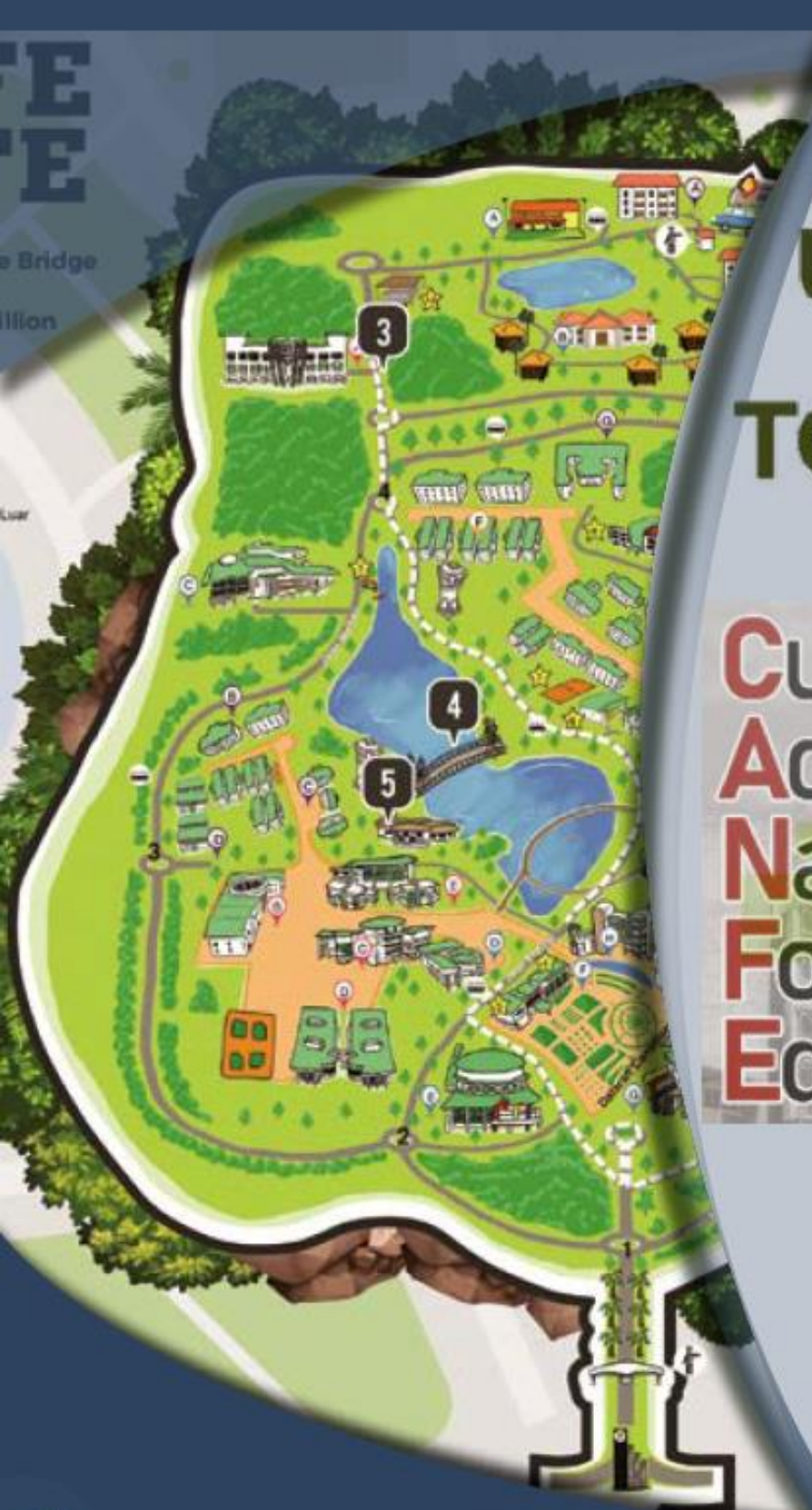
Institute of Borneo Studies Open Day

Research engagement with the local communities by Institute of Borneo Studies



Audio-visual installation for immersive art experience [Institute of Creative Arts & Technology]





# UNIMAS EDU- TOURISM

Culture  
Adventure  
Nature  
Food  
Education



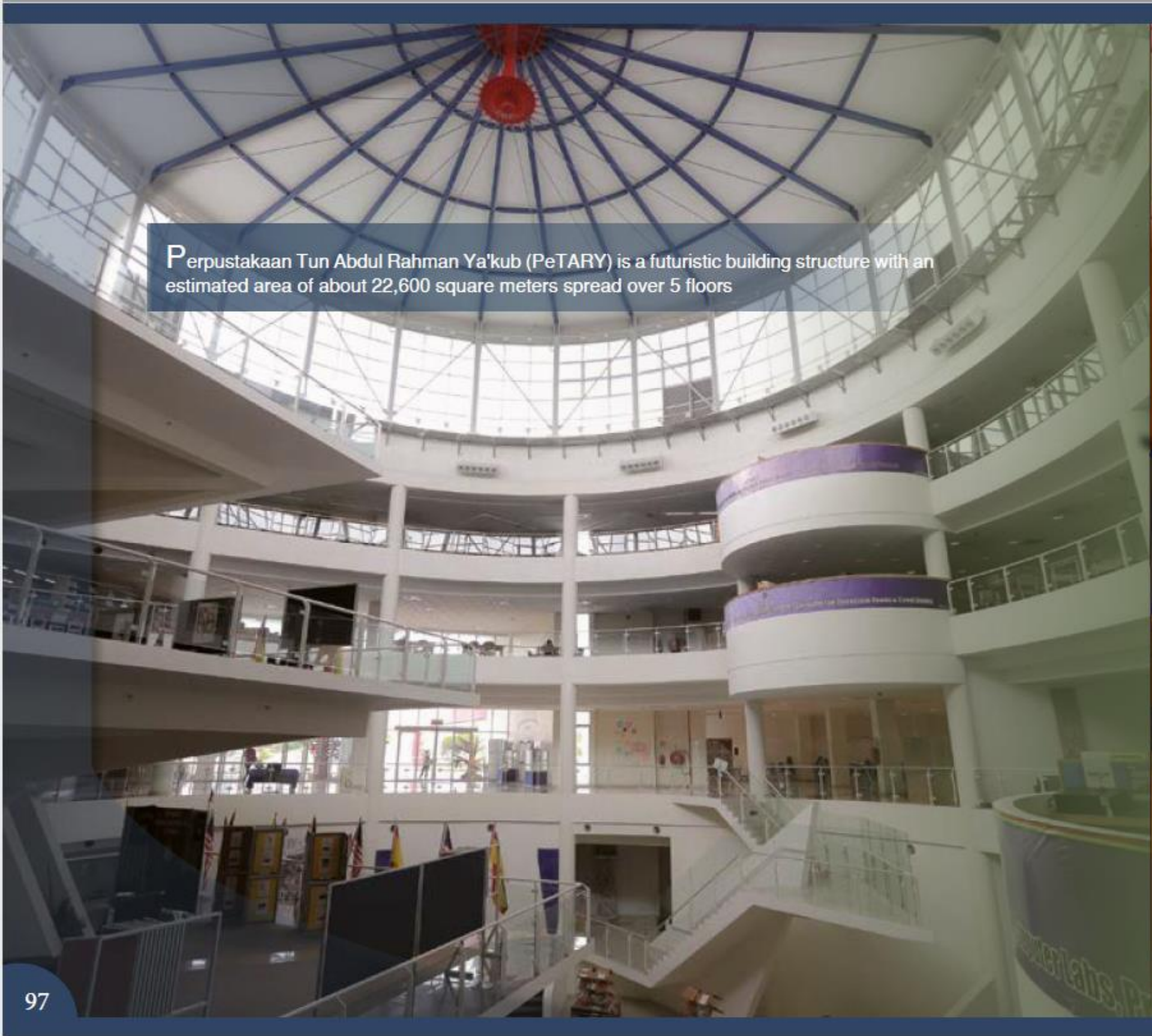
UNIQUELY  
UNIMAS

Top: UNIMAS Real Living Lab (RLL) showcases Sarawak's biodiversity

Bottom: The Love Bridge spans across the UNIMAS lake







Perpustakaan Tun Abdul Rahman Ya'kub (PeTARY) is a futuristic building structure with an estimated area of about 22,600 square meters spread over 5 floors



Mesmerising edutourism sites at the Anatomy & Pathology Museum, Faculty of Applied & Creative Arts' Gallery and Faculty of Resource Science & Technology Lab



# UNIMAS INNOVATION TO COMBAT COVID-19

In the efforts of combatting the coronavirus disease (COVID-19), UNIMAS provided innovation and support to the Government and other stakeholders. Throughout the pandemic, the collaborative efforts of our researchers successfully developed products to ease the burden of our frontliners and support them and our community in these trying times.





**UNIMAS WeCare** - An application to register user's real-time attendance, movement and health situation during the pandemic. It allows users and UNIMAS to adhere to the standard operating procedures during the pandemic [Faculty of Economics & Business and Faculty of Computer Science & Information Technology]



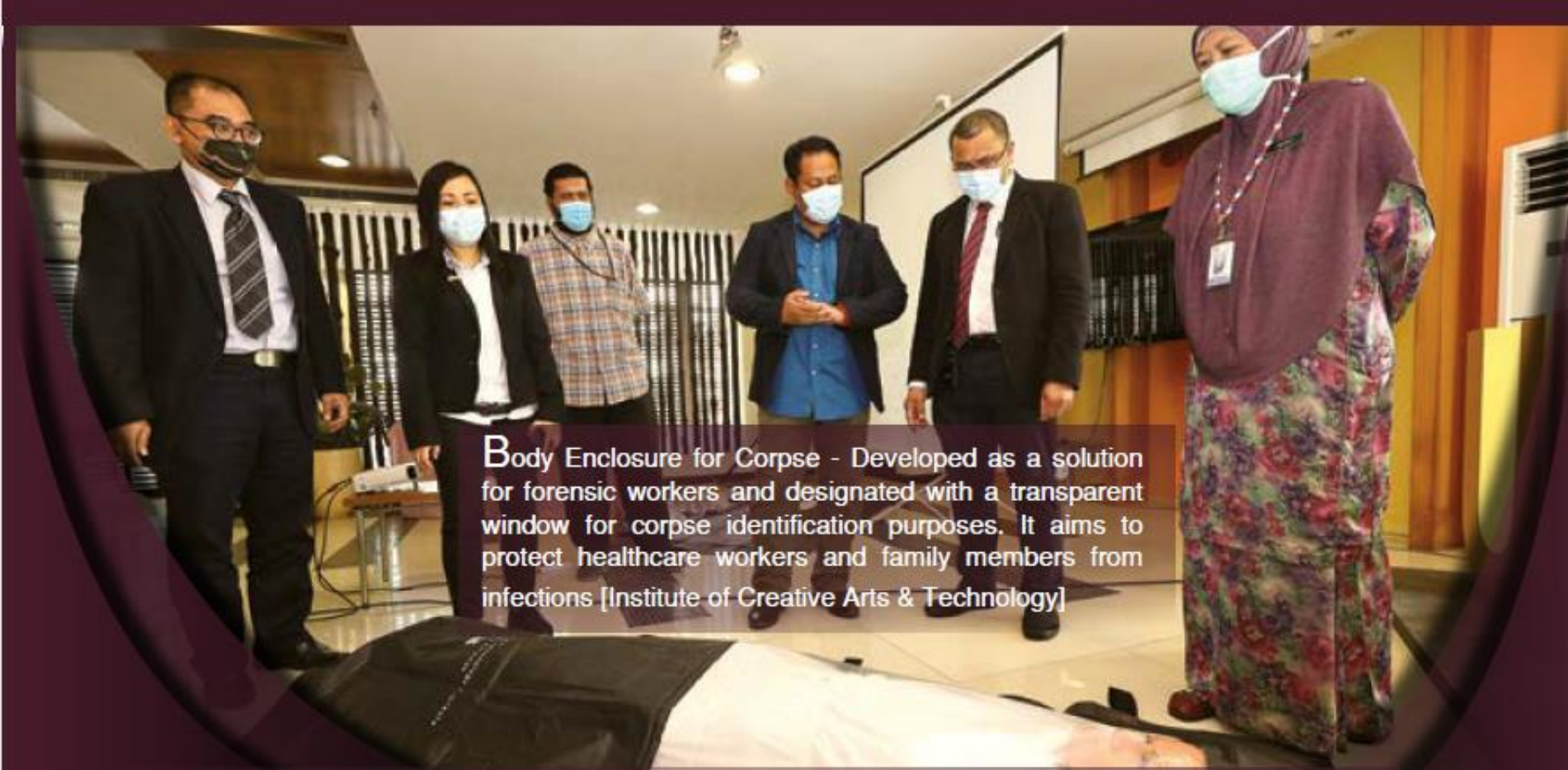
**COVID-19 Self Assessment** - An accessible self-health report application for staff and students [Faculty of Medicine & Health Sciences]

**UNIMAS Hand Sanitiser** - 6,000 bottles have been distributed to various places [Faculty of Resource Science & Technology]

**Intubation Box** - A transparent box used to cover patient's head during endotracheal intubation. It is customised to include sliding doors on both sides for easy tube insertions and we have produced 14 units for hospitals [Faculty of Engineering]

**Protective Shield** - Installation of the protective shield for Sarawak General Hospital Phlebotomy Clinic. It protects the healthcare staff during the process of drawing patient's blood. [Faculty of Engineering]





**Body Enclosure for Corpse** - Developed as a solution for forensic workers and designated with a transparent window for corpse identification purposes. It aims to protect healthcare workers and family members from infections [Institute of Creative Arts & Technology]

**3D Face Shield** - A collaborative project produced over a thousand face shields and ear guards [Faculty of Cognitive Sciences & Human Development, Faculty of Built Environment, and Faculty of Computer Science & Information Technology]



**COVID-19 Testing Centre** - Our Institute of Health & Community Medicine, with the support from Faculty of Medicine & Health Sciences, has been appointed as a certified laboratory for COVID-19 Testing Centre in Malaysia. We are indeed proud of this recognition by the Ministry of Higher Education





*“ We intend to create impactful research that are appropriate, accessible and affordable to the communities that we serve. ”*

PROFESSOR DATUK DR. MOHAMAD KADIM BIN SUAIDI, VICE CHANCELLOR

